



*Phoenix Bio
Industries, Inc.*

RESOURCE RECOVERY EXPERTS



California Energy Commission Committee Workshop on Air Quality and Opportunities to Expand Use of Alternative Transportation Fuels

Presented by Phoenix Bio Industries, LLC

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The Goshen Ethanol Plant

✎ Plant Capacities: 25 – 30 million gallons per year of ethanol and 265,000 to 315,000 tons per year wet distillers grain

✎ The plant will process 265,000 to 315,000 tons per year of Corn

✎ Plant is scheduled to start up in August / September of this year



Area Benefits

- ✎ The project brings 100 new construction jobs and 20 new full time jobs to Goshen
- ✎ The project cost is \$30 million. Construction will bring a one time boost of \$70 million to State and Local economies
- ✎ The project will generate 345 new permanent jobs and \$9 million in additional household revenue through the entire economy
- ✎ The project will generate \$1 million in new tax revenue for State and Local governments





Construction Photos

photo by: J. Warriner

UFO hovers over Ethanol Facility under construction.
Stuns workers.



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A tall industrial distillation column, likely for chemical processing, stands prominently against a clear blue sky. The column is encased in a complex network of yellow-painted structural steel beams and ladders. Numerous pipes, some insulated with yellow and white material, run horizontally and vertically around the column. A blue crane arm is visible on the left side of the structure. The overall scene depicts a large-scale industrial facility.



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Air Quality Issues

- ✎ The most critical air pollutant that needs to be addressed and given priority is Carbon Dioxide. No backsliding on Carbon Dioxide will help drive better air quality and enlightened renewable fuel policies
- ✎ Full fuel cycle analysis shows that ethanol reduces Carbon Dioxide emissions by 30% when compared to gasoline
- ✎ California has had the best air quality on record since the addition of ethanol to all gasoline beginning in 2004



The Challenge



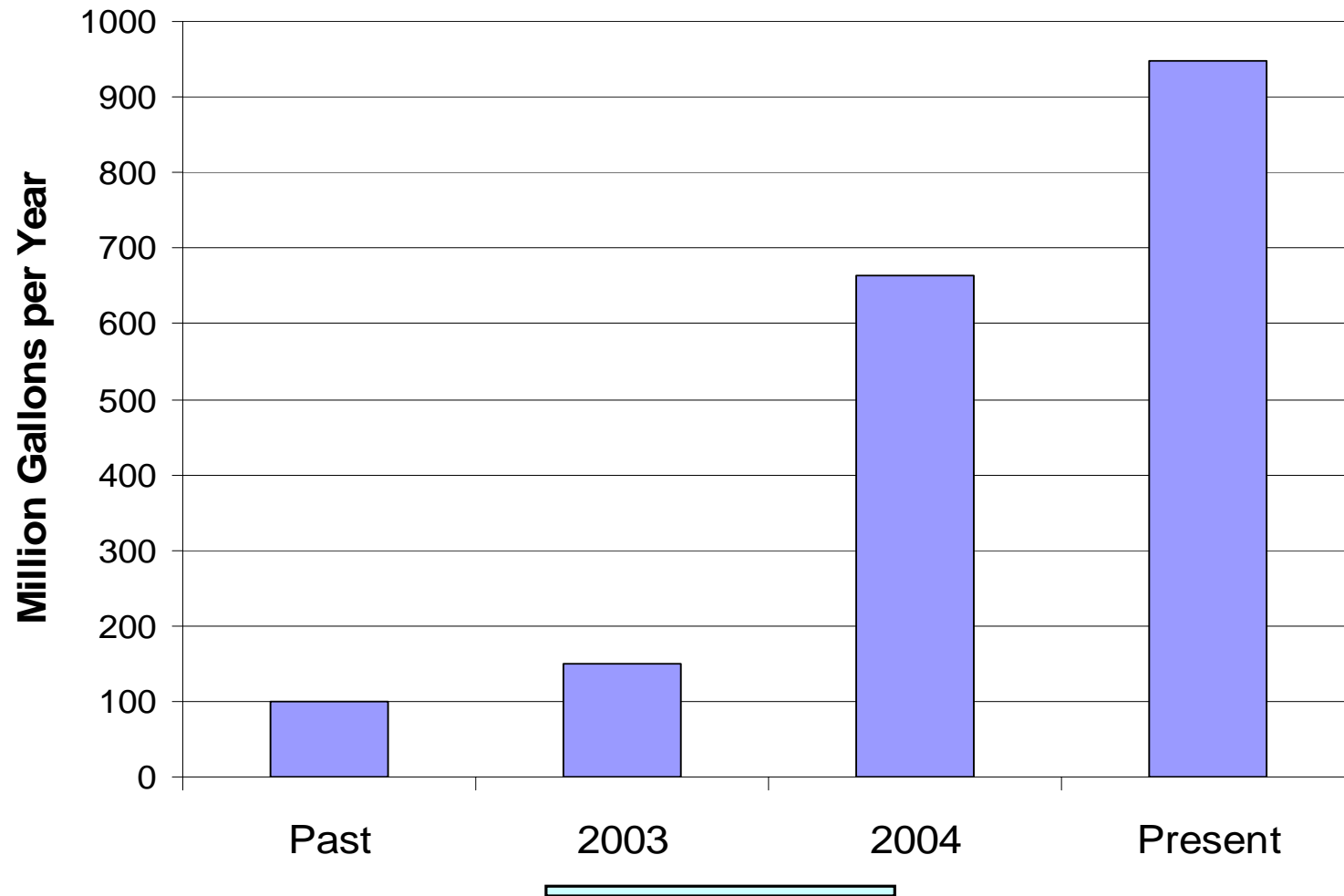
- ✎ Establish a robust year round California ethanol market
- ✎ 10% ethanol blends can save California consumers as much as 8 cent per gallon of gasoline
- ✎ E85 can save California consumers as much as 75 cents per gallon



- ✎ E10 blends are the best short term solution to high fuel costs and air quality improvements NOW
- ✎ E85 is a good long term solution to reducing high fuel costs and improving air quality

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CA Ethanol Demand Scenarios





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